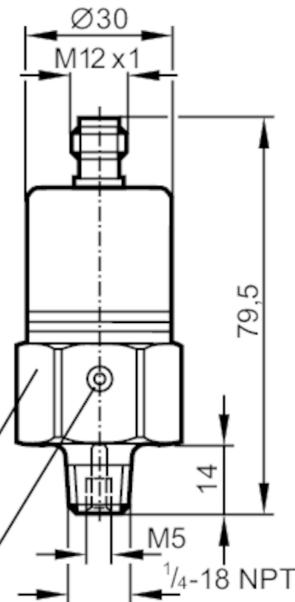


PX3224

Pressure transmitter with ceramic measuring cell

PA-010PRBN14-A-ZVG/US/ IV



1 ventilation



Product characteristics

| | |
|------------------------------|-----------------------------------------------------------------|
| Number of inputs and outputs | Number of analogue outputs: 1 |
| Measuring range [psi] | 0...100 |
| Process connection | threaded connection 1/4" NPT external thread internal thread:M5 |

Application

| | |
|------------------------------|-----------------------------|
| Special feature | Gold-plated contacts |
| Application | for industrial applications |
| Media | liquids and gases |
| Medium temperature [°C] | -25...90 |
| Min. bursting pressure [psi] | 2175 |
| Pressure rating [psi] | 1087 |
| Type of pressure | relative pressure |

Electrical data

| | |
|---------------------------------|-----------------|
| Operating voltage [V] | 9.6...32 DC |
| Min. insulation resistance [MΩ] | 100; (500 V DC) |
| Protection class | III |
| Reverse polarity protection | yes |

Inputs / outputs

| | |
|------------------------------|-------------------------------|
| Number of inputs and outputs | Number of analogue outputs: 1 |
|------------------------------|-------------------------------|

Outputs

| | |
|----------------------------|-----------------|
| Total number of outputs | 1 |
| Output signal | analogue signal |
| Number of analogue outputs | 1 |

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| | | |
|------------------------------------|---------------------------|-------------------------------------------------------------------------------------------------------|
| Analogue current output | [mA] | 4...20 |
| Max. load | [Ω] | 720; ($U_b = 24 \text{ V}$; $(U_b - 9,6 \text{ V}) / 20 \text{ mA}$) |
| Overload protection | | yes |
| Measuring/setting range | | |
| Measuring range | [psi] | 0...100 |
| Accuracy / deviations | | |
| Repeatability | [% of the span] | < 0,15; (with temperature fluctuations < 10 K) |
| Characteristics deviation | [% of the span] | < $\pm 0,35$ (BFSL) / < $\pm 0,75$ (LS); (incl. linearity, zero and span error (limit value setting)) |
| Long-term stability | [% of the span] | < $\pm 0,05$; (per 6 months) |
| Temperature coefficient zero point | [% of the span / 10 K] | 0,2; (0...80 °C) |
| Temperature coefficient span | [% of the span / 10 K] | 0,3; (0...80 °C) |
| Response times | | |
| Step response time analogue output | [ms] | 3 |
| Operating conditions | | |
| Ambient temperature | [°C] | -25...80 |
| Storage temperature | [°C] | -40...100 |
| Protection | | IP 65 |
| Tests / approvals | | |
| EMC | EN 61000-4-2 ESD | 4 kV CD / 8 kV AD |
| | EN 61000-4-3 HF radiated | 30 V/m |
| | EN 61000-4-4 Burst | 2 kV |
| | EN 61000-4-6 HF conducted | 10 V |
| | radiation of interference | according to the automotive directive 2004/104/EC / CISPR 25 |
| | immunity | according to the automotive directive 2004/104/EC / ISO 11452-2 |
| | HF radiated | 100 V/m |
| | pulse resistance | ISO 7637-2 / severity level 3 |
| Shock resistance | DIN IEC 68-2-27 | 50 g (11 ms) |
| Vibration resistance | DIN IEC 68-2-6 | 20 g (10...2000 Hz) |
| MTTF | [years] | 534.69 |
| Pressure Equipment Directive | | Sound engineering practice; can be used for group 2 fluids; group 1 fluids on request |
| Mechanical data | | |
| Weight | [g] | 212 |
| Housing | | cylindrical |
| Dimensions | [mm] | $\varnothing 30 / L = 79,5$ |
| Materials | | stainless steel (316L/1.4404); FKM; PA; EPDM/X |
| Materials (wetted parts) | | stainless steel (303/1.4305); ceramics; FKM |
| Min. pressure cycles | | 100 million |
| Process connection | | threaded connection 1/4" NPT external thread internal thread:M5 |

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Restrictor element integrated no (can be retrofitted)

Remarks

Pack quantity 1 pcs.

Electrical connection

Connector: 1 x M12; coding: A; Contacts: gold-plated



Connection

